PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1059.00121	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.					
International application No. PCT/US04/27893	International filing date (day/month/year) 27 August 2004 (27.08.2004)	(Earliest) Priority Date (day/month/year) 28 August 2003 (28.08.2003)				
Applicant HENRY FORD HEALTH SYSTEM						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) 3. Unity of invention is lacking (See Box No. III) 4. With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:						
5. With regard to the abstract, the text is approved as substitute that has been established may, within one month from	d, according to Rule 38.2(b), by this Authori	ty as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.				
as suggested by the as selected by this	e published with the abstract is Figure No. 1 e applicant. Authority, because the applicant failed to sugather than a sugart failed to sugarther than a sugart					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27893

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)	
	•

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no figure is to be published.

NEW ABSTRACT

A Fuzzy inference system for use in modulating radiation treatment includes a fuzzifier for inputting imaging data, and inference
device operatively to the fuzzifier for analyzing the imaging data and determining radiation treatment target from non-treatment
target, and a defuzzifier for modulating radiation treatment pursuant to the analysis from the inference device.
target, and a defuzzifier for modulating radiation treatment pursuant to the analysis from the interested devices.

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27893

	SIFICATION OF SUBJECT MATTER				
IPC(7)	: A 61 N 5/10			l l	
US CL	: 378/65	1 -1:	Service and IDC	İ	
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELD	S SEARCHED				
Minimum doci	umentation searched (classification system followed by	classificat	ion symbols) .		
U.S. : 37					
0.5					
				de Calda assanbad	
Documentation	n searched other than minimum documentation to the ex	ktent that s	such documents are included in	the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
Electronic data	a base consulted during the international search (name	of data bas	e and, where practicable, seal	ch terms used)	
Please See Co	ntinuation Sheet				
C. DOCU	IMENTS CONSIDERED TO BE RELEVANT				
	Citation of document, with indication, where app	ropriate	of the relevant passages	Relevant to claim No.	
Category *	US 6,504,899 B2 (PUGACHEV et al.) 07 January 200	03 (07 01	2003) entire document	1-11	
A	US 6,504,899 B2 (PUGACHEV et al.) 07 January 200	03 (07.01.	2005), emire document		
				1	
			•		
				ļ	
				[
1					
1					
1					
	3				
ĺ					
ì					
		$\overline{}$			
Further	r documents are listed in the continuation of Box C.		See patent family annex.		
	Special categories of cited documents:	-T"	later document published after the ir	ternational filing date or priority	
		•	date and not in conflict with the app	lication but cited to understand the	
"A" documen	it defining the general state of the art which is not considered to be		principle or theory underlying the in		
of partice	ular relevance	-x-	document of particular relevance; th	e claimed invention cannot be	
"E" earlier a	pplication or patent published on or after the international filing date		considered novel or cannot be consi	dered to involve an inventive step	
			when the document is taken alone		
"L" documer	n which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	document of particular relevance; th	e claimed invention cannot be	
specified			considered to involve an inventive s combined with one or more other st	tep when the document is	
1			being obvious to a person skilled in	the art	
1	nt referring to an oral disclosure, use, exhibition or other means				
"P" documer	nt published prior to the international filing date but later than the	-& *	document member of the same pate	nt family	
priority	date claimed			and romest	
Date of the	actual completion of the international search	Date of	T8 FEB 2005	aren report	
			TA LED COOL		
	er 2004 (22.12.2004)	Authoria	ed officer	· · · · · · · · · · · · · · · · · · ·	
	nailing address of the ISA/US	Authorn	100	1-1-1-1	
	ail Stop PCT, Attn: ISA/US	David V Bruce			
	Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 David V Bruce Telephone No. 703-308-0956		· · · ·		
Facsimile N	fo. (703) 305-3230			v -	

INTERNATIONAL SEARCH REPORT	PCT/US04/27893
	·
	·
	•
	·
Continuation of B. FIELDS SEARCHED Item 3:	
USPTO EAST/BRS search terms: modulated radiation therapy, IMRT, MRT, fuzzy logic, fuzzy	inference, radiation therapy, artificial intelligence
,	
	·

Form PCT/ISA/210 (extra sheet) (January 2004)